

**SUPPLEMENTAL SPECIFICATIONS  
REVISIONS AND CORRECTIONS  
TO THE  
AUGUST 2001  
STANDARD SPECIFICATIONS<sup>1</sup>**

**(Revised March 18, 2004)**

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<sup>1</sup> The Contractor shall make himself aware of these revisions and corrections (Supplemental Specifications), and apply them to the **applicable item(s)** of this contract.



## **Supplemental Specifications to the August 2001 Standard Specifications**

### **Subsection 101.78 Subcontractor.**

Modify the second paragraph as follows:

Exceptions to this definition are suppliers limited to delivering and depositing, but not incorporating material, suppliers of services that transport material, and the work performed which does not advance the completion of the Contract and is not considered as an item of work.

### **Subsection 101.79 Substantial Completion.**

Modify the sentence as follows:

The point at which all Contract items are complete as deemed by the Department excluding any warranties or vegetation growth.

### **Subsection 105.06 Coordination of the Plans, Standard Specifications, Supplemental Specifications, and Special Provisions.**

Renumber the following:

1. General Notices
2. Pay Units in Bid Proposal Forms
3. Special Provisions
4. Plans
5. Supplemental Specifications
6. Standard Construction Details
7. Standard Specifications

### **Subsection 105.13 Maintenance During Construction.**

Add the following:

The contractor shall mow all grass and weeds within the limits of the Contract, as directed by the Engineer, up to 4 times a year to a height in compliance with subsection 107.01.

### **Subsection 105.20 Project Acceptance.**

Modify the first paragraph as follows:

Final acceptance will not occur until completion of the Project in accordance with Subsection 101.16. The Contract time will be stopped at substantial completion.

### **Subsection 108.01 Subletting of Contract.**

Modify the second paragraph as follows:

If the Contractor to whom a contract is awarded proposes to subcontract any part of work, the scope and value of the work to be done by the subcontractor shall be outlined. The cost of materials to be used by the subcontractor shall be outlined. The cost of materials to be used by the subcontractor shall be included in the value of the subcontracted work. A subcontractor shall not subcontract further a portion of the work intended to be done by the original subcontractor without the express written permission of the Engineer.

In granting such permission, the Engineer shall ensure that the subcontractor seeking to subcontract the work to be performed by another shall nonetheless perform with its own organization work amounting to not less than 50% of the total subcontracted bid price.

**Subsection 108.09 Schedule of Liquidated Damages.**

Modify the table of liquidated damages as follows:

Awarded Contract Value		Daily Charge	
For More Than -	To and Including -	Work Day	Calendar Day
\$ 0	\$ 25,000	\$ 275.00	\$ 230.00
25,000	50,000	300.00	240.00
50,000	100,000	395.00	325.00
100,000	500,000	710.00	500.00
500,000	1,000,000	825.00	655.00
1,000,000	2,000,000	850.00	805.00
2,000,000	5,000,000	900.00	845.00
5,000,000	10,000,000	1,350.00	950.00
10,000,000	15,000,000	2,100.00	1,500.00
15,000,000	20,000,000	3,100.00	2,500.00
20,000,000	25,000,000	4,100.00	3,500.00
25,000,000	30,000,000	5,100.00	4,500.00
30,000,000	35,000,000	6,100.00	5,500.00
35,000,000	Over	7,100.00	6,500.00

**Subsection 109.07 Partial Payment.**

Modify the paragraph as follows:

The Engineer will once in each month make an estimate, in writing, of the total amount of work done on the Contract and the value thereof to the date of such estimate. Five percent of the value of the work done as indicated by the estimate shall be retained, if so stated in the Proposal, as security for fulfillment of the Contract until a total of 5% of the total bid price has been retained. Securities may be substituted for this retainage in accordance with Section 6919, Chapter 69, Title 29 of the Delaware Code and as amended. Payment of estimates, except final estimates, shall not exceed those shown on the proposal except those authorized by change order. No such estimates or payments shall be required to be made when in the judgment of the Engineer the work is not proceeding in accordance with the provisions of the Contract, or when in the Engineer's judgment the total value to the work done since the last estimate amounts to less than \$3,000.00. The Engineer, if it deems it expedient to do so, may cause estimates to be made more frequently than one in each month and payments thereon to be made more frequently to the Contractor.

**Subsection 601.07 Hardware.**

Modify the first paragraph as follows:

Machine bolts, drift pins, dowels, nuts, washers, lag screws, and nails shall conform to the requirements of ASTM A307 A.

Modify the first sentence of the second paragraph as follows:

Machine bolts shall have a hex head and nut, unless otherwise specified and shall conform to the requirements of ASTM A307, Grade A.

**Subsection 612.05 Excavation.**

Delete the entire paragraph and insert the following:

The trench in which the pipe is laid shall be excavated in accordance with Section 208 and The Standard Construction Details to the required depth.

**Subsection 612.06 Bedding of Pipe.**

Delete the entire paragraph and insert the following:

Unless noted otherwise, all pipes shall receive a Class C bedding as shown on The Standard Construction Details.

**Subsection 612.11 Basis of Payment.**

Modify the second sentence of the first paragraph as follows:

Price and payment will constitute full compensation for furnishing, hauling, and installing pipe; for all cribbing or foundation treatment (Class C bedding) necessary to prevent settlement; for all shoring and sheeting; for the replacement of any pipe which is not true in alignment or which shows any settlement after laying; and for all material, labor, equipment, tools, and incidentals required to complete the work.

Modify the first sentence of the second paragraph as follows:

For round pipe under 24" (600 mm) nominal inside diameter, and elliptical pipe under 24" (600 mm) nominal inside horizontal dimension, the excavation (excluding rock), Class C bedding, backfill, and backfilling will be included in the price for this work.

Modify the last paragraph as follows:

Payment for excavation and replacement of unsuitable material encountered below the Class C bedding will be provided for under Section 208.

**Subsection 614.11 Basis of Payment.**

Modify the second sentence of the first paragraph as follows:

Price and payment will constitute full compensation for furnishing, hauling, and installing pipe; for all cribbing or foundation treatment (Class C bedding) necessary to prevent settlement; for all shoring and sheeting; for the replacement of any pipe which is not in true alignment or which shows any detrimental settlement after laying; for coating if required; and for all material, labor, equipment, tools, and incidentals required to complete the work.

Modify the first sentence of the second paragraph as follows:

For pipe under 24" (600 mm) nominal inside diameter and arch pipe under 24" (600 mm) nominal inside horizontal dimension, the excavation (excluding rock), Class C bedding, backfill, and backfilling will be included in the price of this work.

Modify the last paragraph as follows:

Payment for excavation and replacement of unsuitable material encountered below the Class C bedding will be provided for under Section 208.

**Subsection 619.11 Test Piles.**

In paragraph (a) (7) modify the second sentence as follows:

However, in no case shall the pile be driven to exceed 240 blows per 12" (300 mm) or 20 blows per 1" (25 mm) of driving for 3 consecutive inches (75 mm).

**Subsection 619.12 Driving Production Piles.**

In paragraph (5) modify the first sentence as follows:

In no case shall production piles be driven to exceed 240 blows per 12 inches (300 mm) or 20 blows per 1" (25 mm) for 3 consecutive inches (75 mm).

**Subsection 623.07 Non-Shrink Grout.**

Delete the entire paragraph and replace with the following:

Non-shrink grout shall conform to ASTM C1107, Grade C with one modification. The minimum 24-hour strength shall be increased to 5.0 KSI. The sampling and testing procedures of ASTM C1107 need not be changed.

**Subsection 708.05 – Frames.**

Add the following paragraph:

Frames for drainage grates fabricated from structural steel that meets or exceeds requirements of AASHTO M 270 Grade 36 or ASTM A 36 will also be acceptable. Such frames shall be fabricated from ½" (minimum thickness) stock, provide a 1 ¼" lip for support of the grate, have a 2" depth to accommodate a 2" thick grate, and have a bottom width of 4". Tolerances shall be  $\pm 1/8"$ . All cutting and welding shall be done in accordance with applicable portions of Subsection 826.12 by certified welders. The fabricated frame shall be hot dip galvanized in accordance with AASHTO M 111 (ASTM A 123) with a minimum of 2 ounces per square foot of zinc coating.

**Subsection 708.06 – Gratings.**

Add the following paragraph:

Gratings for drainage inlets fabricated from structural steel that meets or exceeds requirements of AASHTO M 270 or ASTM A 36 capable of HS-25 load rating will also be acceptable. Grates shall be of the Type 1, 2, or 3 style as shown in the Standard Construction Details. Type 1 shall have 1" x 2" perimeter bars. Type 2 and 3 shall have 3/4" x 2" perimeter bars. Type 1, 2, and 3 shall have ½" x 2" internal bars. Grating spacers shall be flush with the top surface of the grate. Tolerances shall be  $\pm 1/8"$ . All cutting and welding

shall be done in accordance with applicable portions of Subsection 812.12 by certified welders. The fabricated grate shall be hot dip galvanized in accordance with AASHTO M 111 or ASTM A 123 with a minimum of 2 ounces per square foot of zinc coating.

**Subsection 715.03 Perforated, Corrugated Polyethylene Tubing (CPT).**

Modify the first sentence as follows:

Perforated, CPT shall conform to the requirements of AASHTO M252.

**Subsection 715.04 Stone.**

Modify the first sentence as follows:

Stone for backfill shall conform to the requirements of Section 813, Delaware No. 57.

**Subsection Section 715.07 – Video Inspection.**

Delete the first sentence. Insert the following two sentences:

The entire underdrain system shall be videoed prior to the Project's final inspection. The Contractor may video the underdrain system prior to the placement of the final surface course over the area of the underdrain. If guardrail is placed within 3' (.9 m) from the underdrain, that section shall be videoed after installation of the guardrail.

**Subsection 746.03 Construction Methods.**

Delete the last paragraph. Insert the following two sentences:

The concrete for pole bases shall be placed in accordance with the applicable requirements of Section 602. The bases shall be edged and have a broom finish.

**Subsection 748.09 Application.**

Add the following at the end of this subsection:

- (f) *Removal of Pavement Markings.*

When it is necessary to remove pavement markings the following shall apply:

- (1.) For paint and epoxy resin, shot/abrasive grit blasting or water blasting equipment shall be used.
- (2.) For alkylid thermoplastic, burning or grinding equipment shall be used.

The removal operation shall be performed in a manner that will not damage the pavement surface. The contractor must satisfactorily demonstrate his/her proposed equipment and method of removal. Alternative equipment and methods will be considered if satisfactory results can be demonstrated.

The contractor shall collect and dispose of all shot/abrasive grit and pavement marking materials removed from the pavement surface. Washing or sweeping such materials to the roadside will not be permitted.

- (3.) After removal of striping on bituminous concrete pavement, approved flat black paint or asphalt sealer shall be used to cover any exposed aggregate or embedded paint. Payment for removal of pavement marking shall be paid for under its respective item.

**Subsection 812.04 Composition of Mix.**

Add the following to the notes under Table 812-A:

Note 13: Concrete (all classes), which fails to reach full 28 day design strength

( $f'_c$ ) will be considered defective and will be evaluated in accordance with Subsection 602.25 Defective Work. Payment for the item with low strength concrete will be determined in accordance with Subsection 602.27 Basis of Payment (b) Price Adjustment for Low Strength Concrete.

Modify the statement in the bottom of box of Table 812-A as follows:

Notes 8, 9, 10, 11, and 13 refer to all classes of concrete. Note 12 refers to Class D concrete.

**Section 814 – Timber Preservatives.**

Delete Paragraph (a).

**Subsection 821.01 Description.**

Modify the first sentence as follows:

This material consists of coarse crushed stone, crushed slag fragments or Portland cement concrete fragments.

**Subsection 821.03 Material Details.**

Under (c) *Gradation*. Add the following sieve size and weight percent passing for Type B (Crusher Run):

No. 200 (75um)	0 – 10
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Add the following sentence:

Once a stockpile of material has been tested and approved, no material shall be added to it until the stockpile is depleted.



## **SPECIAL PROVISIONS**



## **CONSTRUCTION ITEM NUMBERS**

All construction pay items are assigned a six (6) digit number, shown as Item Number on the Plans and/or in the Special Provisions, and shall be interpreted in accordance with the following:

### **Standard Item Number:**

The first three digits of the construction item numbers indicates the Section number as described in the Standard Specifications, and all applicable requirements of the Section shall remain effective unless otherwise modified by the Special Provisions. The last three digits of the construction item identifies the item by sequential number under that Section. Sequential numbers for all items covered under Standard Specifications range from 000 to 499. A comprehensive list of construction item numbers begins on page 421 of the Standard Specifications. Additions to this list will be made as required.

### **Special Provisions Item Number:**

The first three digits of the construction items, covered under Special Provisions, indicates the applicable Section number of the Standard Specifications, and shall be governed fully by the requirements of the Special Provisions. The last three digit of the items covered under Special Provisions identifies the item by sequential number. Sequential numbers for Special Provision items, range from 500 to 999.

### **Examples**

#### **Standard Item Number - 202000 Excavation and Embankment**

202 Indicates Section Number

000 Indicates Sequential Number

#### **Special Provision Item Number - 202500 Grading and Reshaping Roadway**

202 Indicates Section Number

500 Indicates Sequential Number

## **401502 - ASPHALT CEMENT COST ADJUSTMENT**

For Sections 304, 401, 402, 403, 404, and 405, payments to the Contractor shall be adjusted to reflect increases or decreases in the Delaware Posted Asphalt Cement Price when compared to the Project Asphalt Cement Base Price, as defined in these Special Provisions.

The Delaware Posted Asphalt Cement Price will be issued monthly by the Department and will be the industry posted price for Asphalt Cement, F.O.B. Philadelphia, Pennsylvania.

The Project Asphalt Cement Base Price will be the anticipated Delaware Posted Asphalt Cement Price expected to be in effect at the time of receipt of bids.

All deviations of the Delaware Posted Asphalt Cement Price from the Project Asphalt Cement Base Price are eligible for cost adjustment. No minimum increases or decreases or corresponding percentages are required to qualify for cost adjustment.

Actual quantity of asphalt cement qualifying for any Asphalt Cement Cost Adjustment will be computed on the basis of weight tickets and asphalt percentage from the approved job mix formula.

For Recycled Hot-Mix the asphalt percentage eligible for cost adjustment shall be only the new asphalt cement added to the mix.

There shall be no separate payment per ton (metric ton) cost of asphalt cement. That cost shall be included in the various unit prices bid per ton (metric ton) for those bid items that contain asphalt cement (mentioned above).

The Asphalt cement cost adjustment will be calculated on grade PG 64-22 asphalt regardless of the actual grade of asphalt used. The Project Asphalt Cement Base Price for the project will be ~CEMENT\_PRICE\_64~ per ton (metric ton).

If the Contractor exceeds the authorized allotted completion time, the price of asphalt cement on the last authorized allotted work day, shall be the prices used for cost adjustment during the time liquidated damages are assessed. However, if the industry posted price for asphalt cement goes down, the asphalt-cement cost shall be adjusted downward accordingly.

### **NOTE**

Application of Asphalt Cement Cost Adjustment requirements as indicated above shall apply only to those contracts involving items related to bituminous base and pavements, and with bitumen, having a total of 1,000 tons (1,000 metric tons) or more of hot-mix bid quantity in case of Sections 401, 402 and 403; and 15,000 gallons (60 000 liters) or more in case of Sections 304, 404 and 405.